

Application No.: 09/829,943
Reply to Office Action of October 24, 2003.

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A coating composition, comprising [:];
at least one hydrophobic filler selected from the group consisting of a precipitated silica, a pyrogenic silica, a silicate or a synthetic pigment; and a binder;
wherein the hydrophobic filler has a carbon content of from 0.1 to 5% by weight.

Claim 2 (Currently Amended): The coating composition according to Claim 1,
wherein said hydrophobic filler is surface treated.

Claim 3 (Currently Amended): The coating composition according to Claim 1,
wherein said hydrophobic filler comprises at least one filler particle having a surface treated
with at least one surface treating agent selected from the group consisting of silicon oil,
dimethylpolysiloxanes, $R_2R'Si-$, hexamethyl disilazane, octamethyl tetrasilane, $R_3Si-C_nH_{2n+1}$,
trimethoxy octylsilane, polymethyl siloxanes, polymethyl siloxane emulsions,
trimethoxyhexadecyl silane, aminopropylsilane, vinylsilane, methacrylic silane, and
combinations thereof, wherein in the formulas above, R is independently CH_3O- , C_2H_5O- ,
 C_3H_7O- , or $Cl-$; R' is CH_3- , C_2H_5- ; and $n=1-18$.

Claim 4 (Currently Amended): The coating composition according to Claim 1,
wherein said hydrophobic filler has a DBP uptake of 50-350 g/100 g.

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Claim 5 (Currently Amended): The coating composition according to Claim 1, wherein the hydrophobic filler has a methanol wettability of 10-80%.

Claims 6 (Cancelled).

Claim 7 (Currently Amended): The coating composition according to Claim 1, wherein said hydrophobic filler has a surface area of 50-800 m²/g.

Claim 8 (Currently Amended): The coating composition according to Claim 1, wherein said hydrophobic filler has a particle size of less than 15 μm .

Claim 9 (Currently Amended): The coating composition according to Claim 1, wherein said binder is a polymer selected from the group consisting of polyamide, polyethylenimine, polyacrylamide, cationic-modified polyvinyl alcohol, polyvinyl alcohol, polyvinyl pyridine, amino-substituted polyacrylate, amino-substituted polyether, amino-substituted polyester, polyvinylpyrrolidone, vinyl acetate, poly(meth)acrylate, starch, cellulose, latex, copolymers thereof, and combinations thereof.

Claim 10 (Currently Amended): The coating composition according to Claim 1, wherein said binder is selected from the group consisting of polyvinyl alcohol, polyvinylpyrrolidone/vinyl acetate copolymer, and combinations thereof.

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Claim 11 (Currently Amended): The coating composition according to Claim 1, wherein said binder is present in the coating in an amount ranging from 10-90 parts by weight, based on 100 parts by weight of the coating.

Claim 12 (Currently Amended): The composition coating according to Claim 1, comprising a solids content ranging from 2 to 40% by weight, based on the total weight of the coating.

Claim 13 (Currently Amended): The coating composition according to Claim 1, wherein said hydrophobic filler comprises one or more particles selected from the group consisting of silicas, ~~colloidal silica, silica gel~~, precipitated silica, pyrogenic silica, silicates, calcium silicate, aluminum silicate, sodium aluminum silicate, aluminum polysilicate, naturally occurring pigments, synthetic pigments aluminum oxide, clay, bentonite, calcined clay, precipitated calcium carbonate, mica, montmorillonite, kaolinite, asbestos, talc, diatomaceous earth, vermiculite, natural and synthetic zeolites, cement, ~~alumina-silica gel~~, glass, and combinations thereof.

Claim 14 (Currently Amended): The coating composition according to Claim 1, wherein said hydrophobic filler comprises one or more particles selected from the group consisting of silica, ~~colloidal silica, silica gel~~, precipitated silica, pyrogenic silica, silicate, calcium silicate, aluminum silicate, sodium aluminum silicate, aluminum polysilicate, and combinations thereof.

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Claim 15 (Currently Amended): The coating composition according to Claim 1, wherein said hydrophobic filler comprises one or more particles selected from the group including silicas, ~~colloidal silica, silica gel~~, precipitated silica and pyrogenic silica.

Claim 16 (Withdrawn): An inkjet media, comprising the coating according to Claim 1 coated on a substrate.

Claim 17 (Withdrawn): The inkjet media according to Claim 16, wherein said substrate is selected from the group consisting of plain paper, resin coated paper, cloth, wood, metal plates, films or sheets of polyester resins, diacetate resins, triacetate resins, acrylic resins, polycarbonate resins, polyvinyl chloride resins, polyimide resins, and combinations thereof.

Claim 18 (Withdrawn): The inkjet media according to Claim 16, wherein said substrate is transparent or opaque.

Claim 19 (Withdrawn): A method of inkjet printing, comprising inkjet printing at least one inkjet ink onto a substrate coated with the coating according to Claim 1.

Claim 20 (Currently Amended): A coating composition, comprising:
a hydrophobic filler comprising at least one filler particle and a means for making said particle hydrophobic; and

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a means for binding said hydrophobic filler,

wherein the hydrophobic filler has a carbon content of from 0.1 to 5% by weight.

Claim 21 (Withdrawn): An inkjet media, comprising:

(a) a coating composition, comprising:

(i) a hydrophobic filler comprising at least one filler particle and a means for making said particle hydrophobic, and

(ii) a means for binding said hydrophobic filler; and

(b) a means for supporting said coating composition in contact with said coating composition.

Claim 22 (Withdrawn): A method for inkjet printing, comprising a step for inkjet printing onto an inkjet media, comprising:

(a) a coating composition, comprising:

(i) a hydrophobic filler comprising at least one filler particle and a means for making said particle hydrophobic, and

(ii) a means for binding said hydrophobic filler; and

(b) a means for supporting said coating composition in contact with said coating composition.

Claim 23 (New): The coating composition according to Claim 1, wherein the hydrophobic filler has a carbon content of 0.5 to 2.5% by weight.

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Claim 24 (New): The coating composition according to Claim 1, wherein the filler has a carbon content of from 0.1 to 1.0% by weight.

Claim 25 (New): The coating composition according to Claim 1, wherein the hydrophobic filler has a methanol wettability of from 10 to 20%.

Claim 26 (New): The coating composition according to Claim 1, wherein the hydrophobic filler is obtained by homogeneously mixing a silicon oil with particles of at least one filler.

Claim 27 (New): The coating composition of Claim 26, wherein the hydrophobic filler is washed free of salt after homogeneously mixing.

Claim 28 (New): A coating present on the surface of a substrate, wherein said coating comprises the coating composition of Claim 1.

Claim 29 (New): The coating composition according to Claim 1, wherein the hydrophobic filler is a partially hydrophobic filler.

Claim 30 (New): The coating composition according to Claim 1, consisting essentially of water, the hydrophobic filler and the binder.

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Claim 31 (New): The coating composition according to Claim 1, wherein the hydrophobic filler comprises a silicon-containing surface treating agent chemically fixed to a filler particle.

Claim 32 (New): The coating composition according to Claim 1, comprising at least one hydrophobic filler selected from the group consisting of a precipitated silica, a pyrogenic silica, and a silicate.

Claim 33 (New): The coating composition according to Claim 1, comprising at least one hydrophobic filler comprising a precipitated silica.

Claim 34 (New): The coating composition according to Claim 1, comprising at least one hydrophobic filler comprising a pyrogenic silica.

Claim 35 (New): The coating composition according to Claim 1, comprising at least one hydrophobic filler comprising a silicate.